

Name: _____

p1029: Box multiplication of linear binomials (v0)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3	
2x	$12x^2$	6x	$12x^2 + 6x + 24x + 12$
4	24x	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(4x + 9)$ and $(6x + 2)$.

*	4x	9	
6x	$24x^2$	54x	
2	8x	18	

ANSWER: $24x^2 + 62x + 18$

Question 2

Use the box method to multiply $(4x - 8)$ and $(2x + 6)$.

*	$4x$	-8
$2x$	$8x^2$	$-16x$
6	$24x$	-48

ANSWER: $8x^2 + 8x - 48$

Question 3

Use the box method to multiply $(6x + 4)$ and $(9x - 8)$.

*	$6x$	4
9x	$54x^2$	$36x$
-8	$-48x$	-32

ANSWER: $54x^2 - 12x - 32$